

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (Currently Amended) A multifunctional implant device for bone augmentation function, comprising:
  - a biocompatible bioresorbable polymer as a matrix;
  - an anti-osteolytic agent in said matrix, and
  - a reinforcing structure in close association with the matrix.
2. (Currently Amended) The implant device according to claim 1, wherein the biocompatible bioresorbable polymer of the implant device is self-reinforced.
3. (Currently Amended) The implant device according to claim 1, wherein the implant device comprises discrete reinforcing elements or areas in the matrix.
4. (Currently Amended) The implant device according to claim 3, wherein the matrix is self-reinforced by reinforcing elements or areas of the same bioresorbable polymer.
5. (Currently Amended) The implant device according to claim 3, wherein the matrix is reinforced by reinforcing elements or areas of different material.
6. (Currently Amended) The implant device according to claim 1, wherein the implant device comprises also osteoconductive and/or osteoinductive material.
7. (Currently Amended) The implant device according to claim 6, wherein the osteoinductive material is one or several from the following: PDGF, IGF-I, IGF-II, FGF, TGF-beta, BMP, angiogenic factors.
8. (Currently Amended) The implant device according to claim 6, wherein the osteoconductive material is one or several from the following: collagen, HA, TCP, bioactive glass, bone graft or its derivative.
9. (Currently Amended) The implant device according to claim 1, wherein the antiosteolytic agent is bisphosphonate.

10. (Currently Amended) The implant device according to claim 1, wherein the implant device is a screw, nail, pin, bolt, plate, rod, mesh, filament, bundle of filaments, cord, or thread.
11. (New) The implant device according to claim 5, wherein said different material is different bioresorbable polymer.
12. (New) The implant device according to claim 2, wherein the implant device comprises also osteoconductive and/or osteoinductive material.
13. (New) The implant device according to claim 3, wherein the implant device comprises also osteoconductive and/or osteoinductive material.
14. (New) The implant device according to claim 2, wherein the antiosteolytic agent is bisphosphonate.
15. (New) The implant device according to claim 3, wherein the antiosteolytic agent is bisphosphonate.
16. (New) The implant device according to claim 4, wherein the antiosteolytic agent is bisphosphonate.
17. (New) The implant device according to claim 11, wherein the antiosteolytic agent is bisphosphonate.
18. (New) The implant device according to claim 2, wherein the implant device is a screw, nail, pin, bolt, plate, rod, mesh, filament, bundle of filaments, cord, or thread.
19. (New) The implant device according to claim 3, wherein the implant device is a screw, nail, pin, bolt, plate, rod, mesh, filament, bundle of filaments, cord, or thread.
20. (New) The implant device according to claim 4, wherein the implant device is a screw, nail, pin, bolt, plate, rod, mesh, filament, bundle of filaments, cord, or thread.
21. (New) The implant device according to claim 9, wherein the implant device is a screw, nail, pin, bolt, plate, rod, mesh, filament, bundle of filaments, cord, or thread.